

# Derek Ni

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## EDUCATION

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### Cornell University

Ithaca, NY

B.S. Computer Science, Minor in Business; GPA: 4.04

Expected May 2023

Courses: Algorithms, Functional Programming, Operating Systems, Database Systems, Artificial Intelligence, Machine Learning, Web Applications, Discrete Structures, Backend Development, Probability & Statistics

## WORK EXPERIENCE

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### Asana | React

New York, NY

Software Engineer Intern

May 2022 – August 2022

- Built a typeahead for Asana custom field selectors, which currently support 300+ options
- Designed new components, improved existing ones, and iterated changes under a flag
- Discussed with tech leads and wrote documentation on improving core components

### Fizz (YC S21) | Flutter, Firebase

New York, NY

Software Engineer Intern

Jan 2022 – May 2022

- Backed by Kleiner Perkins, SV Angel, A\*, etc.
- Developed a backend Firestore database to handle credit card and repayment logic
- Created webhook using Apto API to handle updating the backend for transaction updates
- Connected backend to mobile app and added Firebase event tracking using Flutter

### Amazon | Java

Seattle, WA

SDE Intern

May 2021 – Aug 2021

- Redesigned an API for getting messages with the Alexa Messaging Service
- Implemented encrypted pagination tokens for paging through messages with the API

### Tesla | React Native, Python

Palo Alto, CA

Mobile Engineer Intern

Feb 2021 – May 2021

- Developed and improved components in the Tesla app using React Native and TypeScript
- Created simulator to test code endpoints using Flask, Python, and WebSockets

## PERSONAL PROJECTS

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### [Ascii Stream](#) | [IvyHacks 2<sup>nd</sup> Overall](#) | [NextJS](#), [WebRTC](#)

- Video call web app that converts video to ASCII art to save bandwidth
- Implemented with WebRTC for real time text and audio communication between users
- Deployed as Next.js web app to Vercel, with Python script to convert video frames to ASCII art

### [Minto](#) | [React](#)

- Productivity Chrome extension to incentivize productivity by the minute through rewards
- Wrote scripts to track minutes worked in sessions, which users can spend on rewards they create

### [TaskTime](#) | [Swift](#)

- Productivity iOS app to motivate users to complete to-dos and keep healthy habits
- Created gamified to-do list to increase user productivity, through points and rewards

## SKILLS

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**Languages:** Python, TypeScript, JavaScript, Java, Dart, C#, Swift, OCaml, HTML, and SQL

**Tools:** React, Git, Visual Studio Code, Firebase, Flutter, Eclipse, XCode, and Jupyter Notebook